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NVIDIA NCP-AAI Exam Syllabus Topics:

Topic	Details
Topic 1	• Run, Monitor, and Maintain: Addresses the ongoing operation, health monitoring, and routine maintenance of agentic systems after deployment.

Topic 2	• Evaluation and Tuning: Addresses methods for measuring agent performance, running benchmarks, and optimizing agent behavior.
Topic 3	• Safety, Ethics, and Compliance: Covers the principles and practices needed to ensure agents operate responsibly, ethically, and within legal and regulatory requirements.
Topic 4	• Human-AI Interaction and Oversight: Focuses on designing systems that enable effective human supervision, control, and collaboration with AI agents.
Topic 5	• NVIDIA Platform Implementation: Focuses on leveraging NVIDIA's AI hardware and software stack to build and optimize agentic AI systems.
Topic 6	• Deployment and Scaling: Covers operationalizing agentic systems for production use, including containerization, orchestration, and scaling strategies.

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Certification NCP-AAI exam on the first attempt. The demand of the Agentic AI exam is growing at a rapid pace day by day and almost everyone is planning to pass it so that they can improve themselves for better futures in the ExamPrepAway sector. NCP-AAI has tried its best to make this learning material the most user-friendly so the applicants don't face excessive issues.

NVIDIA Agentic AI Sample Questions (Q108-Q113):

NEW QUESTION # 108
When analyzing memory-related performance degradation in agents handling extended customer support sessions, which evaluation methods effectively identify optimization opportunities for context retention?
(Choose two.)

- A. Implement sliding window analysis comparing context compression strategies, summarization quality, and information preservation rates across varying conversation lengths to identify optimization opportunities.
- B. Profile memory access patterns by measuring retrieval latency, relevance scoring accuracy, and storage efficiency while monitoring context window utilization to identify optimization opportunities.
- C. Store all conversation history including all interactions, allowing adaptive-free observation of data to identify optimization opportunities.
- D. Use fixed memory allocation including all conversation types, topic changes, and user needs, allowing adaptive-free observation of interaction patterns to identify optimization opportunities.
- E. Clear memory after each interaction and reset session state, removing historical context needed for personalized tasks to identify optimization opportunities.

Answer: A,B

Explanation:
At production scale, the combination of Options B and D preserves separability between reasoning, state, tools, and runtime operations. Memory degradation is measured through retrieval latency, relevance, compression quality, and preserved facts over long sessions. Clearing memory only destroys the signal. The high-value engineering move is separate short-term context for the current task and long-term memory for preferences, history, and durable domain facts. Together, B states "Profile memory access patterns by measuring retrieval latency, relevance scoring accuracy, and storage efficiency while monitoring context window utilization to identify optimization opportunities."; D states "Implement sliding window analysis comparing context compression strategies, summarization quality, and information preservation rates across varying conversation lengths to identify optimization opportunities.", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. The alternatives would look simpler in a prototype, but fine-tuning alone cannot store frequently changing facts, and RAG alone does not train better habitual behavior. For a production build, NeMo-style training and retrieval workflows distinguish learned behavior from recallable enterprise knowledge. Anything less would make the agent fragile when traffic, schemas, policies, or user behavior shift.

NEW QUESTION # 109
You are developing an agent that needs to perform a complex set of tasks repeatedly.
Why is periodic fine-tuning an important aspect of long-term knowledge retention for this type of agent?

- A. It eliminates the need for external storage like RAG.
- B. It prevents the agent from becoming overly specialized to a single task.
- C. It guarantees the agent will produce the same output for the same input.
- D. It prevents the agent from forgetting past successes and failures.

Answer: D

Explanation:
The selected option specifically C states "It prevents the agent from forgetting past successes and failures.", which matches the operational requirement rather than a superficial wording match. Option C is the right call because it gives the platform team levers to tune behavior without rewriting the entire agent loop. The implementation detail that matters is tool contracts that can be versioned, tested, and observed independently from the reasoning loop. Periodic fine-tuning converts recurring successes and failures into model behavior. It does not remove RAG; it reduces repeated mistakes in stable task patterns. That is why the other options are traps: manual tool wiring scales poorly as the catalog grows and usually fails silently when a vendor updates parameters or response fields. Within the NVIDIA stack, NeMo Agent Toolkit treats agents, tools, and workflows as composable functions, so tool-calling agents can choose from names, descriptions, and schemas rather than guessed endpoints. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

NEW QUESTION # 110
An AI architect at a national healthcare provider is maintaining an agentic AI system. The system must monitor model and system performance in real time, raise alerts on failures or anomalies, manage version control and rollback of diagnostic models, and provide transparent insight into agent behavior during patient care workflows.
Which operational approach best supports these requirements using the NVIDIA AI stack?

- A. Expose agents as stateless NVIDIA API endpoints and monitor activity through application logs, with model versions tracked in a Git-based script repository.
- B. Deploy agent models on NVIDIA Triton Inference Server with Prometheus and Grafana for performance alerting, and manage model lifecycle via NGC and the Triton model repository.
- C. Containerize each agent in NIM with basic health checks running on cron jobs, and manage version rollback by swapping prebuilt container images.
- D. Optimize all models with TensorRT and use periodic manual log reviews and NVIDIA shell scripts for detecting service anomalies and managing rollback.

Answer: B

Explanation:
The NVIDIA implementation angle is not cosmetic here: TensorRT-LLM and NIM reduce inference overhead, but they still need serving-level tuning to avoid queue buildup under concurrency. Triton plus Prometheus/Grafana gives live metrics; NGC/model repositories support versioned lifecycle control. Cron logs are not enough for healthcare operations. Option C wins because it optimizes the system boundary around the risky component rather than hoping the base model behaves consistently. The selected option specifically C states "Deploy agent models on NVIDIA Triton Inference Server with Prometheus and Grafana for performance alerting, and manage model lifecycle via NGC and the Triton model repository.", which matches the operational requirement rather than a superficial wording match. The durable control mechanism is matching model precision, batch windows, model instances, and GPU memory behavior to the latency service-level objective. The losing choices mostly optimize for short-term convenience; hardware upgrades alone do not fix poor batching, serial ensembles, guardrail overhead, or KV-cache pressure. For certification purposes, read the question as asking for controlled autonomy, not raw LLM creativity.

NEW QUESTION # 111
You're evaluating the performance of a tool-using agent (e.g., one that issues API calls or executes functions).
From the list below, what are two important features to evaluate? (Choose two.)

- A. Task completion rate
- B. Tokens per second

- C. Tool use rate
- D. Tool use accuracy

Answer: A,D

Explanation:
The runtime should therefore be built around wrappers that convert messy external services into stable functions with bounded latency and predictable failure semantics. the combination of Options A and D is the right call because it gives the platform team levers to tune behavior without rewriting the entire agent loop.
For tool agents, the two decisive signals are whether the correct tool was chosen and whether the task completed. Tokens per second is infrastructure performance, not agent competence. Within the NVIDIA stack, tool execution should sit behind adapters that can be profiled and regression-tested just like retrieval and inference services. Together, A states "Tool use accuracy"; D states "Task completion rate", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer.
The rejected options are weaker because hardcoded endpoints, loose parsers, or monolithic handlers turn every API change into an application release and hide failures from observability. The answer is therefore about engineered control planes, not simply model capability.

NEW QUESTION # 112
What is RAG Fusion primarily designed to achieve?

- A. Automatically translating and integrating all retrieved chunks into a single language.
- B. Minimizing the need for retrieval, allowing the LLM to generate responses directly from its internal knowledge.
- C. Blending information from multiple retrieved chunks into a single response generated by the LLM.
- D. Creating a separate, dedicated database for storing all the retrieved chunks.

Answer: C

Explanation:
RAG Fusion improves generation by blending evidence from multiple retrieved chunks. It is about combining retrieved context, not eliminating retrieval. In a GPU-backed agent deployment, Option C maps closest to how the NVIDIA stack expects orchestration, inference, and control policies to be separated. The selected option specifically C states "Blending information from multiple retrieved chunks into a single response generated by the LLM.", which matches the operational requirement rather than a superficial wording match.
The correct implementation surface is retriever isolation, vector index quality, reranking, freshness-aware ingestion, query expansion, and retrieval guardrails. This lines up with NVIDIA guidance because NeMo Guardrails can add retrieval rails around RAG context, while the serving layer remains independent from the vector database. The distractors fail because keyword-only retrieval misses semantic matches, while unfiltered concatenation can pollute the answer with weak evidence. This choice gives engineering teams the knobs they need for continuous tuning after deployment. The retrieval layer should be independently measured for recall, relevance, freshness, and latency before blaming the generator.

NEW QUESTION # 113
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